

# PRODUCT INFORMATION PACKET

Model No: 444TSTFC16002

Catalog No: GT1148

Globetrotter® General Purpose Motor, 125 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 444TS Frame, TEFC



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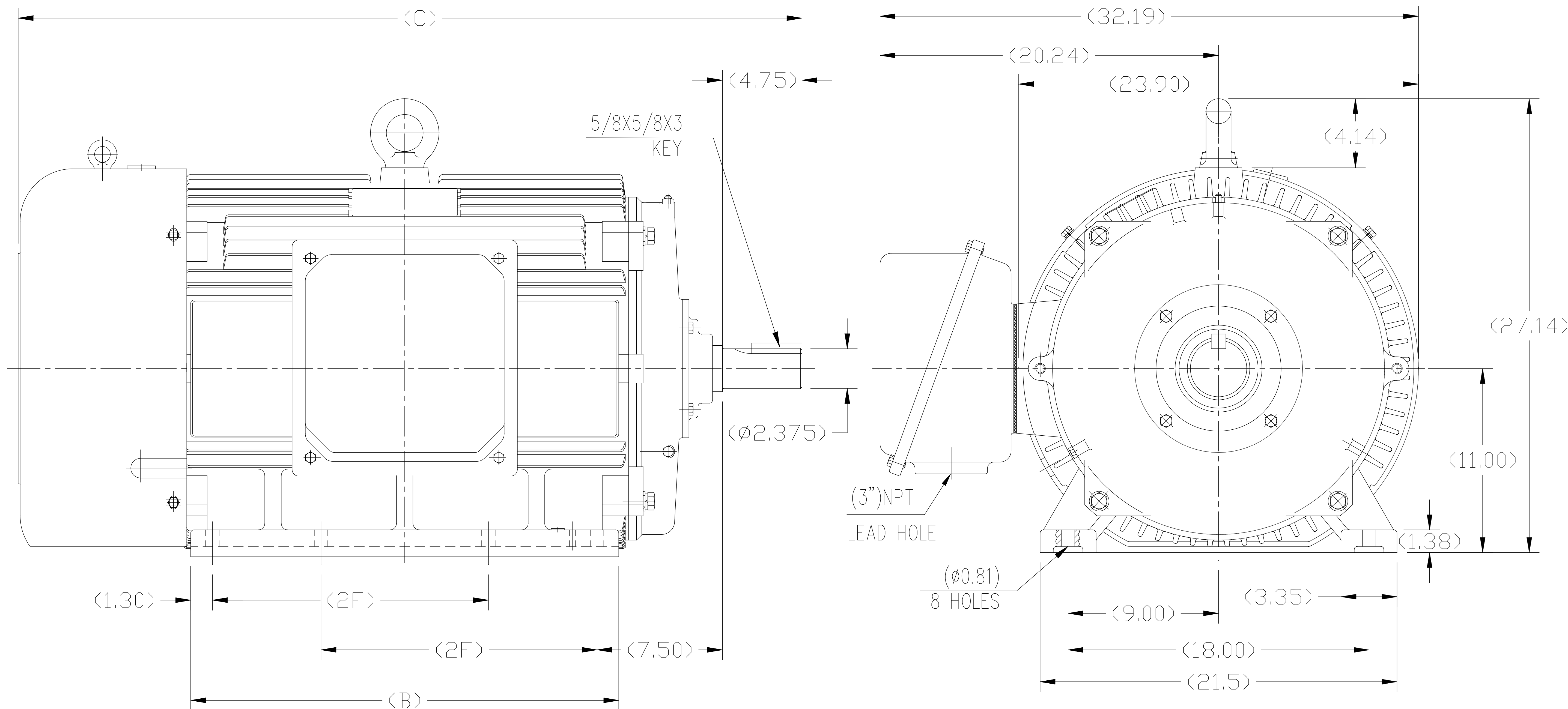
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### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>125 Hp</b>
Output KW	<b>93.0 kW</b>	Voltage	<b>575 V</b>
Speed	<b>3582 rpm</b>	Service Factor	<b>1.15</b>
Frame	<b>444TS</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>95 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 Hz</b>
Current	<b>109.0 A</b>	Power Factor	<b>90</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>G</b>
Drive End Bearing Size	<b>6314</b>	Opp Drive End Bearing Size	<b>6314</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>43</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>2</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.03 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>TS</b>	Overall Length	<b>47.05 in</b>
Shaft Diameter	<b>2.375 in</b>	Shaft Extension	<b>4.75 in</b>
Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>	Inverter Load	<b>VARIABLE 10:1</b>
Connection Drawing	<b>EE7300</b>	Outline Drawing	<b>SS620281-444TS</b>



1. THIS MOTOR IS NOT DUAL DRILLED FOR 444T/445T OR 447T/449T
2. THIS MOTOR IS DRILLED FOR F1/F2 CAPABILITY

444TS	47.05	25.60	14.50
445TS	47.05	25.60	16.50
447TS	52.17	30.70	20.00
449TS	52.17	30.70	25.00
Frame	C	BB	2F

				TOLERANCES UNLESS SPECIFIED		REGAL-BELOIT CORPORATION		DRAWN ZYH 02-21-2010			
				DEC.	INCHES			CHK HZJ 02-21-2010			
				.X	±.1	REGAL-BELOIT CORPORATION		APPD CL 02-21-2010			
				.XX	±.03	TITLE		SCALE 1=6			
C	UPDATED DRAWING PER MARK-UP	ECD-0108274	WGJ 10-7-16	EMH	±.005	444/445/447/449TS FR-TEFC CAST IRON		REF			
A	2 leads hole change to 1		CL 2010-9-8		±.0005	MAT'L.		FMF HWADA			
NO.	REVISION		BY & DATE	CHK	ANG	±1/2	FINISH	PREV			
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP			CAD FILE	SS620281	SIZE	DRAWING NO.	REV.
				DIST				B	SS620281	C	

THREE PHASE - SINGLE VOLTAGE  
MOTOR - CONDUIT BOX @ 'A'

TERMINAL BLOCK WHEN SPECIFIED

TO REVERSE ROTATION:  
INTERCHANGE ANY TWO LINE  
LEAD CONNECTIONS



VIEW OF TERMINAL END

**OPTIONAL CORD CONNECTION**

L1	WHITE
L2	RED
L3	BLACK

A-9806 DECAL

DRAWING REVISION AC	REVISION BY BS	REV DATE/© DATE 26/07/2022
REQUEST NUMBER CR-0010402	APPROVED BY SN	DATE 26/07/2022
REQUEST NUMBER DESCRIPTION DRAWING UPDATED		
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PRIMARY DIMENSIONS ARE INCH  
mm DIMENSIONS IN [BRACKETS]  
ARE FOR REFERENCE ONLY

DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION

		Regal Beloit America, Inc.	
DESCRIPTION <b>CONNECTION DIAGRAM</b> EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR			
MATERIAL		PROCESS/FINISH	
SIZE <b>A</b>	DRAWING NUMBER <b>EE7300</b>		SHEET 1 OF 1

**CERTIFICATION DATA SHEET**

**Model#:** 444TSTFC16002 AA  
**CONN. DIAGRAM:** A-EE7300  
**OUTLINE:** B-SS620281

**WINDING#:** CHT44420001 NONE 4  
**ASSEMBLY:** F1/F2 CAPABLE

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
125	93	3600	3582	444TS	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	109	Y START D RUN OR INV	CONTINUOU S	F7	1.15/1.15	40	3300

FULL LOAD EFF: 95	3/4 LOAD EFF: 94.5	1/2 LOAD EFF: 93.6	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 90	3/4 LOAD PF: 89	1/2 LOAD PF: 86	94.5	SQ CAGE INV RATED	24

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
183 LB-FT	725.6	320 LB-FT 175	475 LB-FT 260	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
87 dBA	97 dBA	31 LB-FT^2	75 LB-FT^2	15 SEC.	2	2300 LBS.

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6314	6314						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

\*  
N  
O  
T  
E  
S  
\*

INVERTER TORQUE: VARIABLE 10:1
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

DATE: 06/21/2017 04:02:14 AM  
 FORM 3531 REV.3 02/07/99

\*\* Subject to change without notice.

Data Sheet

Date: 1/28/2019  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



444TSTFC16002

Submittal

Data @ 575 V

Motor Load Data

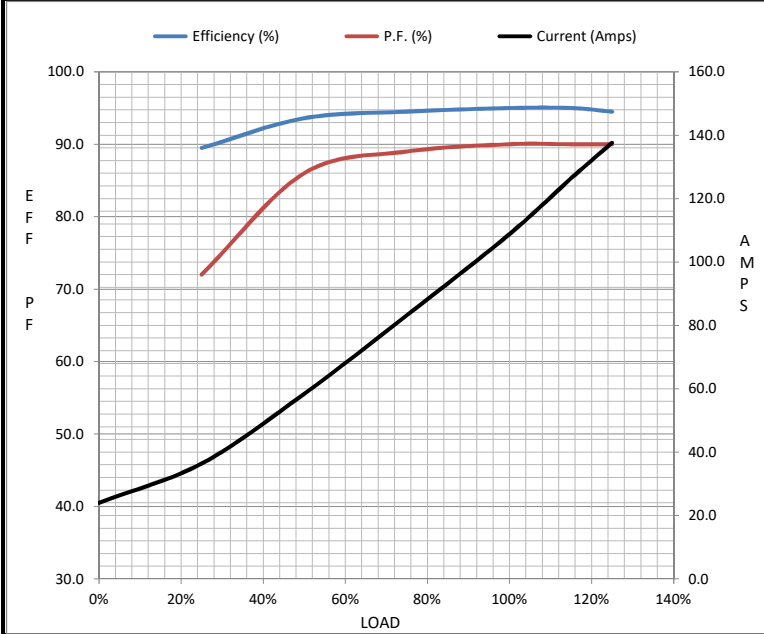
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	24.0	36.4	58.4	83.2	109	126	138	726
Torque (ft-lb)	0.00	45.5	91.5	138	183	211	230	320
RPM	3600	3595	3590	3588	3582	3,578	3575	0
Efficiency (%)		89.5	93.6	94.5	95.0	95.0	94.5	
P.F. (%)	10.0	72.0	86.0	89.0	90.0	90.0	90.0	33.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3475	3582	3600
Current (Amps)	726	660	460	109	24.0
Torque (ft-lb)	320	250	475	183	0.00

Information Block

HP	125.0			
Sync. RPM	3600			
Frame	444			
Enclosure	TEFC			
Construction	TFC			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	75 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	3,300 feet			
Rotor/Shaft wk <sup>2</sup>	31.0 Lb-Ft <sup>2</sup>			
Ref Wdg	CHT44420001 NONE			
Sound Pressure @ 1M	87 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	SS620281-444TS			
Conn. Diag	A-EE7300			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0340	0.0160	0.2660	0.3870	13.7620



Speed - Torque Curve

